

Inventor: ERICKSON et al.
 Docket No.: 00270.0079USWO
 Title: HARVEST-INDUCIBLE GENES FROM ALFALFA (MEDICAGO SATIVA) AND
 METHODS OF USE THEREOF
 Attorney Name: Gregory A. Sebald
 Phone No.: 612.336.4728
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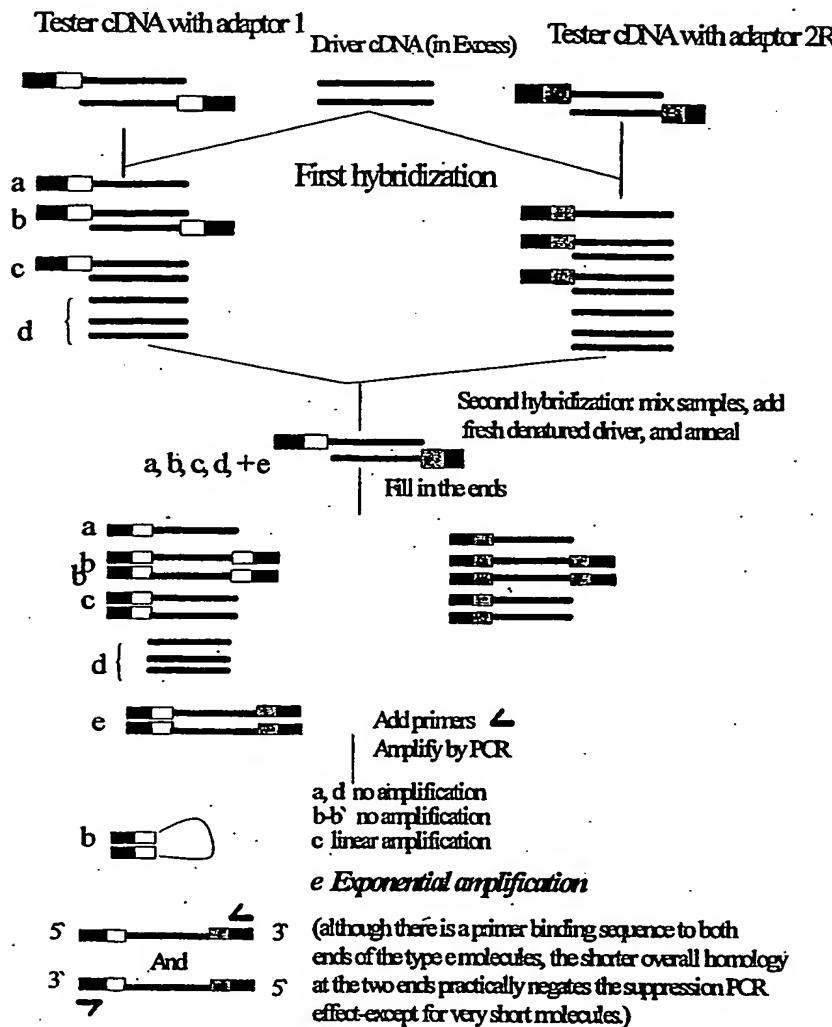


FIG. 1

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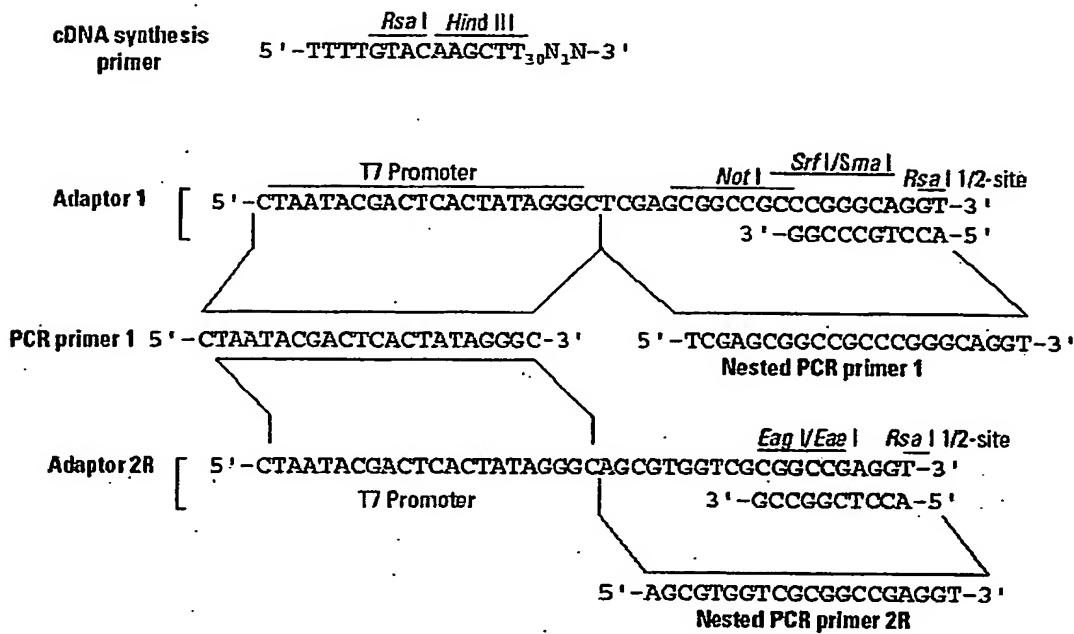


FIG. 2

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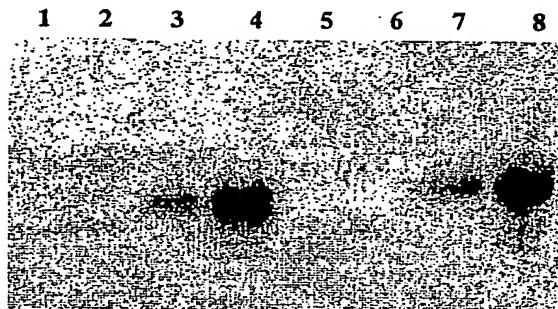


FIG.3

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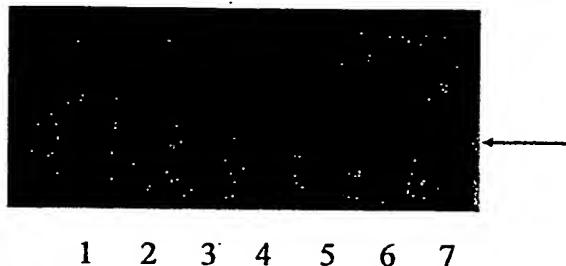


FIG. 4

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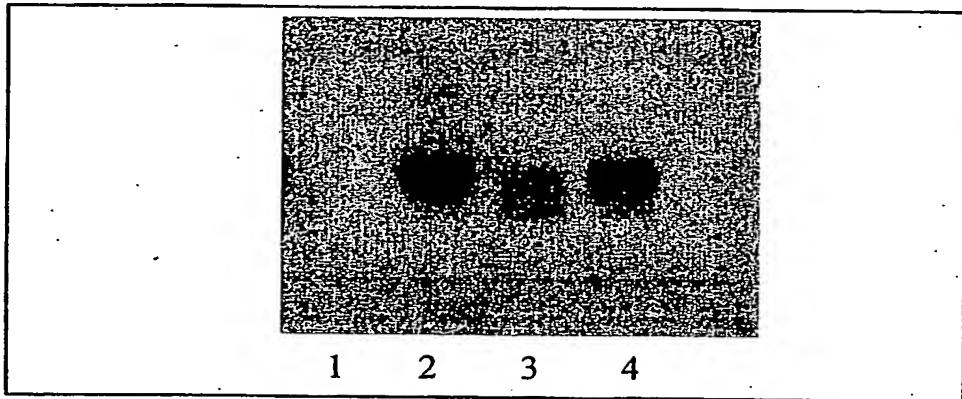


FIG. 5

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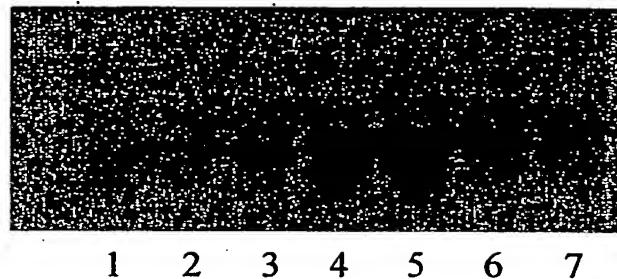


FIG. 6

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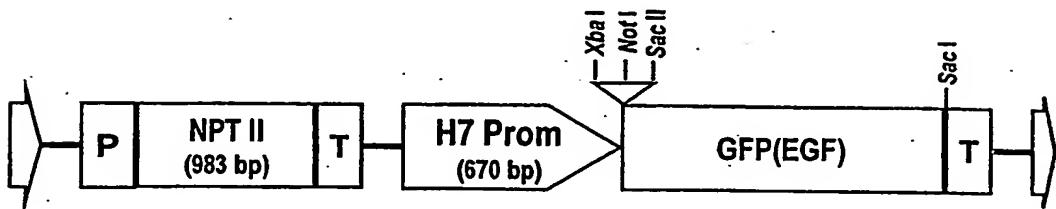


FIG. 7

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ccacccatga	caccattgct	atatttcaat	ttgggaaa	at	tgctataa	agttactgta	120	
gtaactttt	gaagaagg	tttttttaa	ggat	ttttaga	ggaagg	tttag	caacacacat	180
gcactttaaa	tatacattt	ttcttataaa	gtt	ttgtat	cgagtt	gaga	aatcatat	240
atactcataa	atcatgtgga	tttcatataa	ttaatagaa	cacataa	att	ttaaccgaga	300	
aataaagtgt	tgcaaata	tgtt	aaaaga	gtacgtt	ttttttttt	taatttctt	360	
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accaacggcc	tcagtaagct	actt	gagct	aacaat	gaga	tttccaaata	aggtaggtcc	540
 ttcccaagtt								600
ctataat								600
actccctcac								660
catgtcataa								720
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CAT ACT								780
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AGTGCTATT								1260
TGGGTGTTA								1260
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GTTGGTGATA								1320
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CCATCTGTAT								1320
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ATAATGCAA								1380
AGAATTTAT								1380
CGCGAAAAAA								1380
AAAAA								1380
AAAAA								1424

FIG. 8

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cagaaccgg anaggctgg gctagtatgg cttcggtgta atacgactca ctatagggcg 60
cgcgtggtcg acggcccccggg ctggtatcg cgagtaacga ttcatcatat ctcacactag 120
ggatgaatga ttatttattt agttatgaa ttgaactat tacttcaat ttctaaatga 180
agacatttaa gtaaaagatt aaaatattct agttcaaat atttggatt tttagaattta 240
aatttaatct ttaaaaaaaa attaaattta aagaagataa aaaggagaa aataaataaga 300
tgaatataat ttgttaaacat gaagaccta tctccagtaa aaaaacatat ggaccttac 360
tttttgaggt aggaaggatc tacgcgggaa accttccct gactgtgaac cccgtatgca 420
gagggcagaga cagagagtAT GGCCTCCACA CTCAGTCTTG TCAAGCTTCC CATTCTTCA 480
AGCATCAAGA CACGCCAATC AACCTCAAAA CATGTTGTTTC CACTTCCATC CAAATTCAAT 540
ATTGTCCCCC CCACCCCCACT AAAGTTTCA TTAGATCATIC AAATTAATAT CAAACAAACT 600
TCTCTTCTAT CCCTCACAGC AATCACATTT CCATTCTTAT TGGATACCAA ggcaagcaag 660
caagcaagca tcctattcta ttctattctt tcatccatat cttaactctt ttgtttctta 720
accaatccat gatatgaatg ttgttggaaac aggatgcact tgctgttggg ggAGAGTTG 780
GGATATTGAGGAGAACA TTTGCTCTCA TTCACCCCAT TGTGTTGGGT GGTTTGTCT 840
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ctattctgca ttttcaaaaaa aaaaaaaaaaa aa 1482

FIG. 9

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1 aaatacaaag gtgaccttat tttgcaaaa atccatgcat ggaaatgcat catccttt
61 aaaatgggtt tatctgaatt cttaa **gttacgtqaa** aatt aatacatttc attttagata
ABRE cis-acting element
121 aatttattat taaaattcac acttagatgg cctaaaaatt aacacttatt tttacaatt
181 caaataaaaat atacgacgaa atgagtgtaa ttttagttggtaaagcatcgtaaagcttgg
241 agagaaaatgat catagttga tctttaaaaa ctatactatt gaaaagggtg aagatatcta
301 acctccaaaca aaatttattt gatagtgcattcaaaatttcaaaaatttggaaatattttg
361 taaaattgtta agttggaaa aatatgttaa ttttcaaaatttaccatttgcacatccccat
421 atctcaaaatc acatttaagg gatgttgact actttcgaaaatc tttacaattt
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661 tttcataact cattttctat aaatacagaa aatcctcaaa aatgaaaaac ctcggtaaaa
721 aaataaaaaga aaaacatcaa tagtggactg gcccacactc attgcttgc tttagtatgaa
781 gaaagttagac ctcaccaacc acgaaccggc cgccgaccgg ttc **acccaa** catcacacca
CAAT-BOX
841 attttcctaa accataccgg tttttccctc cct **tatata** ccattctctc ccctcttctc
TATA-BOX
901 taaccaagct tcattcaact cttcaacaca tatcagaaaC AGAAAAAAAGA AGCAAAACAT
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M A T N E D Q K Q T E S G R H
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Q E V G H K S L L Q S D A L Y Q Y I L E
1081 ACCAGTGTCTTCCCAAGAGAACATGAAGCCATGAAAGAGTTGAGAGAGGTCACAGCAAAA
T S V F P R E H E A M K E L R E V T A K
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H P W N I M T T S A D E G Q F L S M L L
1201 AAACTTATCAATGCTAAGAACATGGAAATTGGTGTCTACACTGGCTACTCCCTCCTT
K L I N A K N T M E I G V Y T G Y S L L
1261 GCCACTGCCCTAGCTATTCTGAAGATGAAAGATTTGGCTATGGACATTAACAAAGAA
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1321 AATTACGAATTGGGTCTACCTGTAATTAAAAAGCTGGTGTGATCACAAATTGATTTC
N Y E L G L P V I K K A G V D H K I D F
1381 AGAGAAGGTCCAGCTTCCAGTTCTGATGAAATGATCAAAGACGAAAAGAACATGGT
R E G P A L P V L D E M I K D E K N H G
1441 AGCTACGATTCATTTGTGGATGCTGACAAAGACAATTACCTCAACTACCATAAGAGG
S Y D F I F V D A D K D N Y L N Y H K R
1501 TTAATTGATCTGTTAAAGTGGGAGGTGTGATCGGGTACGACAACACCTTATGGATGGA
L I D L V K V G G V I G Y D N T L W N G
1561 TCTGTGGTTGCACCCCTGATGCTCCATTGAGGAAGTATGTTAGGTACTATAGAGATTT
S V V A P P D A P L R K Y V R Y Y R D F
1621 GTTTGGAGCTTAACAAGGCTTGGCTGGACCCCTAGGATTGAAATATGTATGCTTCCCT
V L E L N K A L A V D P R I E I C M L P
1681 GTTGGGTGATGGAATCACTATCTGCCGTAGGATCAAGTAA TTGGTTGCATGTGCACTATA
V G D G I T I C R R I K *
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1801 AAAGTCTTCAAGCCTTCTGTCTTTGTATTCTTCAACATATTGTGGTTGTAATT
1861 TTCTCTTGTGTC ATTGATATTG AAACCTCGAA TAATTGAAAG TTATAT

FIG. 10

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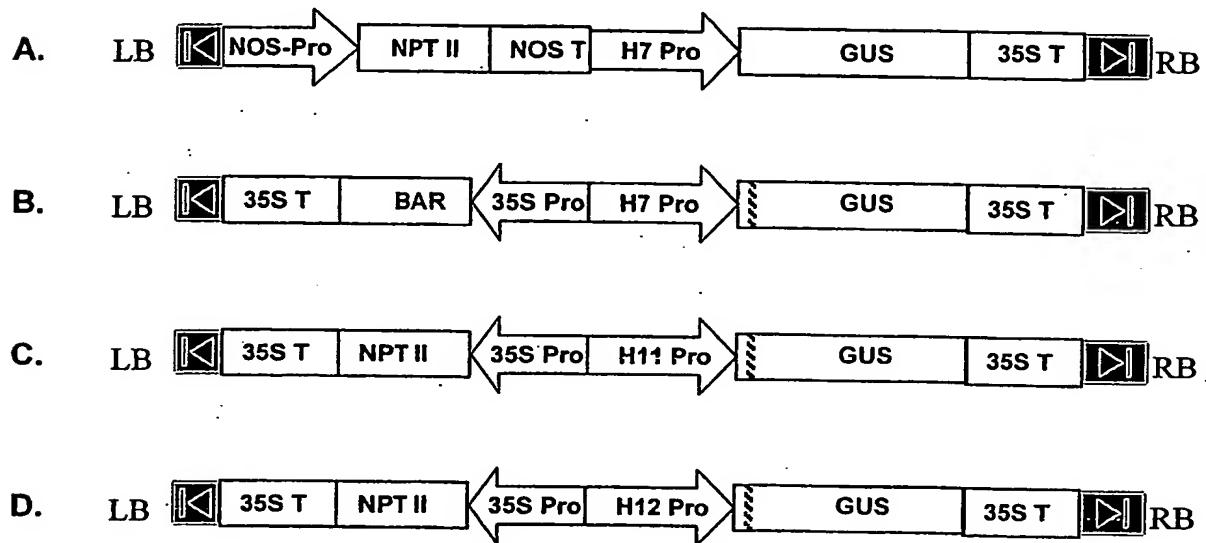


FIG. 11

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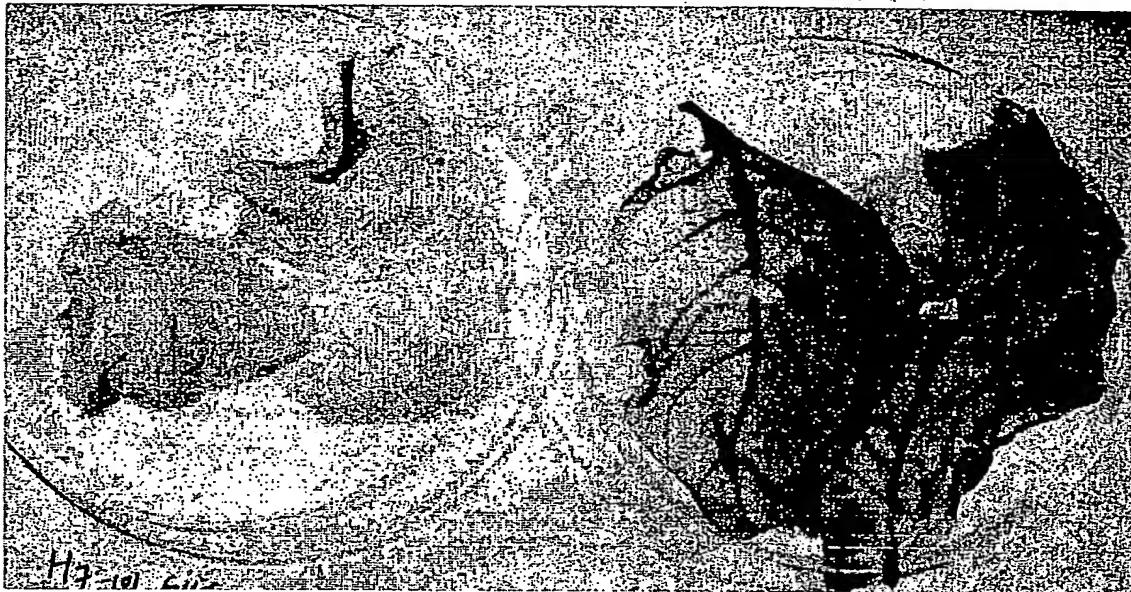


FIG. 12

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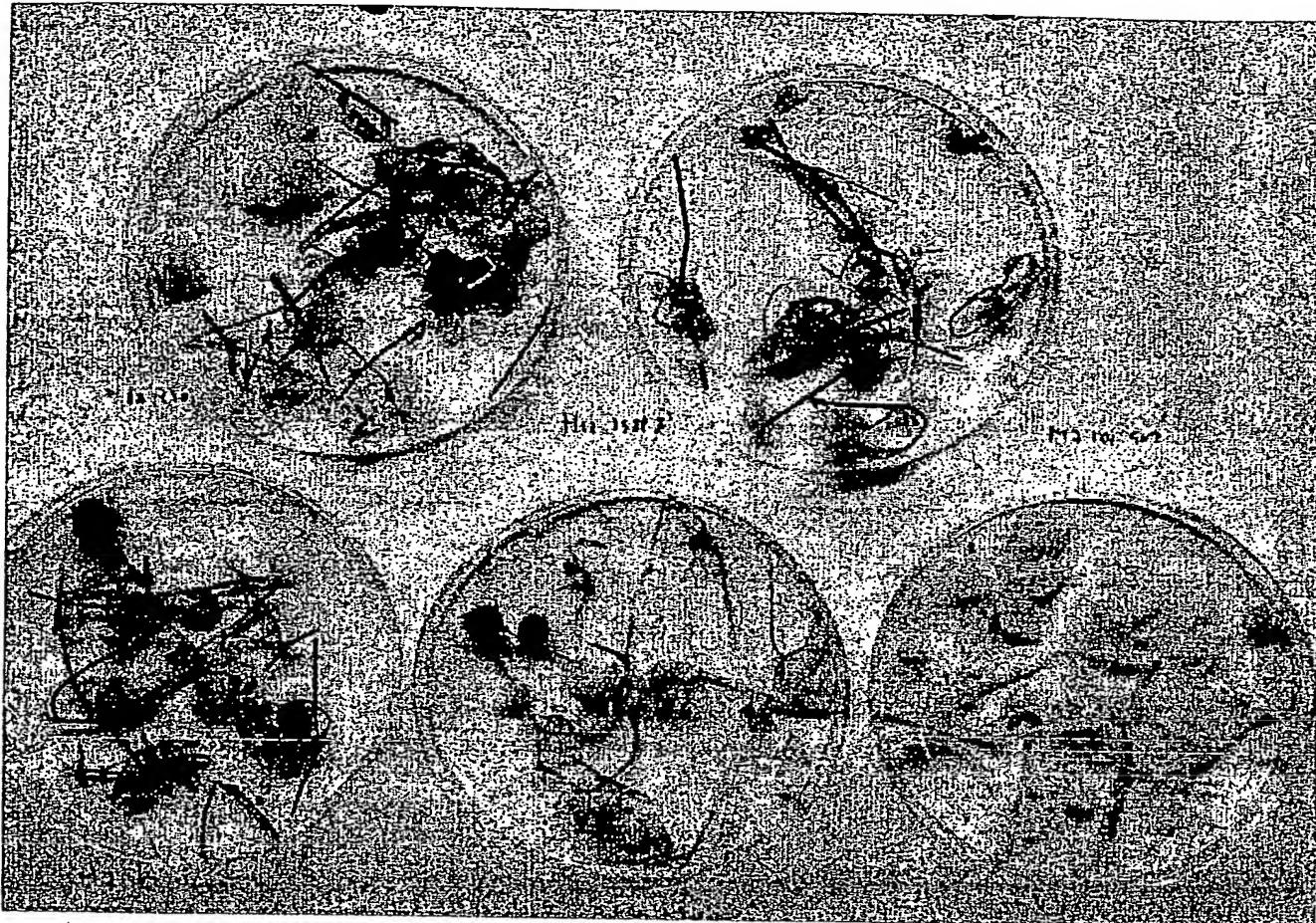


FIG. 13